

MR. R. B. SHARPE ON BIRDS COLLECTED IN PERAK.



FROM the collections previously sent by Mr. WRAY (cf. P. Z. S., 1886, p. 350, and 1887, p. 431), it was so easy to prophecy that his future explorations would bring to light the existence of more Himalayan genera in the high mountains of the Malay Peninsula, that I can take little credit for my prognostications; but the foreshadowing of Mr. WRAY'S accomplishments does not impair the credit of that explorer's success in his last expedition into the mountain ranges of the interior of the Peninsula.

He states that the mountains, on which he has lived for six months, "contain really very few more birds than the Larut range, though they are so much more extensive," and he collected up to an altitude of 7,000 feet.

By the present collection several interesting forms have been revealed, representatives of allied species in Tenasserim, and the ranges of several birds are extended southwards. The genera hitherto unrecorded from the mountains of Malacca are *Anthipes*, *Brachypteryx*, *Gamsorhynchus*, and *Cutia*—all Himalayan in Tenasserim forms, of which, so far as we know, only *Brachypteryx* has occurred in Sumatra. The Avifauna of the latter island is further linked to that of the mountain ranges of the Malay Peninsula by the discovery of a black Babbling Thrush representing the *Melanocichla bicolor* of Sumatra.

The unexampled success which has attended Mr. WRAY'S efforts so far will, we hope, encourage him to still further investigations of the interesting region in which he is domiciled.

The references in the present paper are chiefly to Mr. OATES' "Handbook of the Birds of British Burma," which

includes an allusion to the paper on the birds of Tenasserim by Messrs. HUME & DAVISON. I have also referred to Count SALVADORI'S essay on Dr. BECCARI'S collections from high Sumatra (Ann. Mus. Civic. Genov. xiv, p. 169), whenever there occurs any affinity in the Avifauna of that island with the collection under discussion.

Mr. WRAY'S original remarks, by far the most important part of the present paper, are placed in inverted commas.

FAM.—FALCONIDÆ.

Neopus malayensis (Temm.).

Neopus malayensis, Sharpe, P. Z. S., 1887, p. 433; Hume, Str. F., 1879, p. 44.

"No. 18. ♀ ad. Mountains of Perak (Gunong Batu Puteh).

"Irides brown; feet yellow; cere yellow; expanse 5 feet 10 in., length 2 feet 5 in.

"The stomach contained the remains of a rat, a bird's egg, and a snake's egg. The plumage of this specimen was far darker than that of the two I obtained last year on the Larut Hills."

FAM.—CORVIDÆ.

Platylophus ardeciacus (Blyth).

Platylophus ardesiacus, Sharpe, Cat. Birds Brit. Mus., iii, p. 137; Hume & Davison, Str. F., 1878, p. 380; Oates, B. Brit. Burm., i, p. 410; Hume, Str. F., 1879, p. 66.

"No. 117. ♀ ad. Batang Padang (mountains of Perak).

"Irides dark brown; bill black; feet and leg black. It frequents the undergrowth of the forest."

FAM.—CAMPOPHAGIDÆ.

Pericrocotus wrayi, Sp. n. (Plate xv).

"No. 53. *P. igneus*, ♂ ♀ ad. Batang Padang mountains, Perak."

I can hardly believe that this is the species I identified and returned to Mr. WRAY as *Pericrocotus igneus* (P. Z. S., 1887, p. 435. If such be the case, I was greatly in error, for the pair of birds now sent are decidedly distinct from that species. *P. wrayi* has the quill-lining red, instead

of yellow, and also the under wing-coverts, and it has the throat slaty grey and the ear-coverts slaty black, instead of glassy black like the head. Total length 6.3 in., culmen 0.5, wing 3.1, tail 3.2, tarsus 0.55. The female of *P. igneus* differs very much from the female of *P. wrayi* in being entirely bright yellow below and in having a scarlet rump. The nearest ally of *P. wrayi* as regards the female plumage is that of *P. brevirostris*, but *P. wrayi* is of a darker slate-grey, has a brighter yellow lower back and rump, no yellow on the forehead, and the chin white.

The males of *P. neglectus* and *P. brevirostris* differ in their glassy black throat and fiery crimson, not scarlet, under surface.

While on the subject of the genus *Pericrocotus*, I may mention that Count SALVADORI very kindly sent me over the types of his new species from Tenasserim, and I am able to state with certainty that *P. rubrolimbatus*, Salvad., Ann. Mus. Civic. Genov. (2) v, p. 582, is=*P. solaris*, and *P. pulcherrimus*, Salvad., t. c., p. 580, is=*P. neglectus* of Hume.

Pericrocotus croceus, Sp. n.

"No. 107. ♂ ad. Gunong Batu Puteh (4,300 feet).

"Irides dark brown; legs and feet black."

This is a beautiful bird, but I feel grave doubts whether it is anything more than a yellow variety of *P. wrayi*, the red part in *P. wrayi* being golden yellow in *P. croceus*, and the throat is darker, being black like the cheeks and sides of face. Total length 6.1 inches, culmen 0.45, wing 3.4, tail 2.95, tarsus 0.55.

FAM.—MUSCICAPIDÆ.

Muscicapula hyperythra (Blyth).

Muscicapula hyperythra, Sharpe, Cat. B. Brit. Mus., iv, p. 206; Salvad., t. c., p. 203.

"No. 93. ♂ ad. Ulu Batang Padang (4,200 feet).

"Irides dark brown; legs and feet flesh-colour. Frequents the undergrowth in the forests."

This little Flycatcher is now recorded from the Malay

Peninsula for the first time. Its presence was, however, to be suspected, as the species occurs in the Eastern Hymalayas and again in Java and Sumatra.

Muscicapula westermanni, Sp. n.

"No. 115. ♂ ad. Gunong Ulu Batang Padang (4,200 feet).

"Irides light brown."

Adult male.—General colour above blue grey, with a slight brown wash on the scapulars and lower back; rump ochreous brown; upper tail-coverts a little more rufescent; wing-coverts dusky, edged with ochreous brown; bastard-wing, primary-coverts, and quills blackish, fringed with olive-brown, the secondaries rather more rufescent on the base of the outer web, tail feathers brown, externally rufous brown; head blue-grey like the back, a little more hoary on the forehead; lores and eyelid white; ear-coverts and sides of face blue-grey, with a few whitish lines on the former; throat white, with a slight ashy tinge; remainder of under surface of body white, the sides of the breast ashy grey; sides of the body also washed with ashy grey; under tail-coverts white; thighs ashy; axillaries and under wing-coverts white, the edge of the wing blackish; quills dusky below, white along the edge of the inner web. Total length 3.7 inches, culmen 0.45, wing 2.2, tail 1.55, tarsus 0.55.

This is a very curious form, recalling the characters of several of the other *Muscicapulæ*. It may not be the fully adult of its species, but I believe it to be so. The reddish upper tail-coverts and tail remind one of the female of *M. maculata*, but the blue-grey upper surface distinguishes it at a glance. The female and young male of *M. superciliaris* have generally an ochreous tinge on the throat which distinguish them; but one specimen from Sikhim is white below like *M. westermanni*, while the upper surface is brown and the shade of blue which is seen on it (it is apparently a young male) is not slaty blue, but bright blue as in the adults.

Tersiphone affinis (Blyth.).

Tersiphone affinis, Oates, B. Brit. Burm., i., p. 261.

Muscipeta affinis, Hume, Str. F., 1879, p. 58.

"No. 118. ♂ ad. Batang Padang mountains, Perak.

"Irides dark brown; bill black; legs and feet same. This species occurs in Penang, Province Wellesley, and Batang Padang District of Perak, but in Larut it is replaced by a slightly larger and whiter species."

Philentoma velatum (Temm.).

Philentoma velatum, Oates, *t. c.*, p. 263; Hume, Str. F., 1879, p. 58.

"No. 128. ♂ ad. Batang Padang mountains, Perak.

"Irides crimson; bill black; feet and legs black."

Philentoma pyrrhopterum (Temm.).

Philentoma pyrrhopterum, Oates, *t. c.*, p. 264; Hume, Str. F., 1879, p. 58.

"No. 127. ♂ ad. Batang Padang mountains, Perak.

"Irides red; bill black."

Identical with male from other parts of the peninsula and from Tenasserim. I have re-examined the type of *P. intermedium* of Hume from Johor, and I cannot see how it differs from *P. pyrrhopterum*.

Culicicapa ceylonensis (Sw.).

Culicicapa ceylonensis, Sharpe, Cat. Birds Brit. Mus., iv, p. 369; Oates, *t. c.*, p. 274; Hume, Str. F., 1879, p. 59.

"No. 111. ♂ ad. Gunong Puteh (3,400 feet).

"Irides reddish brown; feet and legs warm brown; soles of feet red; bill black."

Cryptolopha davisoni, Sp. n.

"No. 96. ♂ ad. Gunong Ulu Batang Padang (4,200 feet).

"Irides dark brown; bill above brown, beneath yellow; legs and feet flesh-colour."

This is a Malayan representative of *C. montis* of Kina Balu, from which it differs in its larger size and intensified colouring, being dark grass-green instead of yellowish green, having all the rufus parts of the head chestnut instead of ferruginous, and in being much brighter yellow below. Total length 3.8 inches, culmen 0.4, wing 2.15, tail 1.55, tarsus 0.7.

Cryptolopha trivirgata (Strickl.).

Cryptolopha trivirgata, Sharpe, P. Z. S., 1887, p. 435; Salvad., t. c., 204.

"No. 97. ♀ ad. Gunong Batu Puteh (4,300 feet).

"Irides dark brown."

Stoparola thalassinoides (Cab.).

Stoparola thalassinoides, Sharpe, Cat. B. Brit. Mus., iv, p. 432; Hume, Str. F., 1879, p. 59.

"No. 136. ♂ ad. Larut.

"Irides light brown."

A truly Malayan species, represented by the ordinary *S. melanops* in Tenasserim, to which province the present bird does not extend.

Anthipes malayana, Sharpe, *antea*, p. 247.

"No. 94. ♂ ad. Gunong Batu Puteh (4,300 feet).

"Irides dark brown; legs and feet white; bill nearly black. Lives apparently on the ground."

A young bird, mottled all over after the manner of Flycatchers, is sent by Mr. WRAY from the same locality. "No. 98. Irides deep brown; legs and feet pale flesh-colour. Hops about among the undergrowth, searching for insects, making a nearly continual chirping." Although the Hume collection does not contain any young *Anthipes* for comparison, I think that the present specimen must belong to a species of that subgenus.

Niltava grandis (Hodgs.).

Niltava grandis, Sharpe, P. Z. S., 1886, p. 251.

"No. 11. ♀ ad. Batang Padang mountains, Perak."

Niltava leucoprocta (Tweed.).

Niltava leucoprocta, Oates, B. Brit. Burm., i, p. 298.

"No. 103. ♂ ad. Gunong Batu Puteh (3,400 feet).

"Irides light brown; bill black; legs and feet light grey; soles of feet flesh-colour."

I have compared the adult male now sent with others from Tenasserim, and find it to be identical. The extension of the range of the species is interesting.

FAM.—PYCNONOTIDÆ.

Criniger gutturalis (Bp.).

Criniger gutturalis, Oates, *t. c.*, p. 185; Hume, Str. F., 1879, p. 61.

"Nos. 104, 105. ♂ ad. Gunong Batu Puteh (3,400 feet).

"Irides red-brown. A noisy harsh-voiced bird; flies in small parties, rather high up in the trees."

Mr. WRAY sends me one *Criniger* (No. 105), which, after much hesitation and careful comparison with the series of skins in the Hume collection, I have decided to be only the young of *C. gutturalis*. Its much lighter bill and rufous wings and tail, at first sight, make it look very different.

Rubigula cyaniventris (Blyth).

Rubigula cyaniventris, Oates, *t. c.*, p. 200.

Ixidra cyaniventris, Hume, Str. F., 1879, p. 63; Salvad., *t. c.*, p. 230.

"No. 131. ♀ ad. Larut.

"Irides light brown."

Trachycomus ochrocephalus (Gm.).

Trachycomus ochrocephalus, Oates, *t. c.*, p. 188; Hume, Str. F., 1879, p. 61; Salvad., *t. c.*, p. 218.

"No. 121. ♂ ad. Batang Patang mountains, Perak.

"Irides brown; bill black.

"This is the *Sibharoh* or *Upih Bidau* of the Malays. It is very plentiful among the bushes which fringe the river-banks, but it is so shy that is hardly ever seen, though its prolonged, loud, musical, and very involved song is one of the most noticeable river side sounds in the country."

FAM.—TROLODYTIDÆ.

Pnoëpyga pusilla (Hodgs.).

Pnoëpyga pusilla, Hume and Davison, *t. c.*, p. 234; Salvad., *t. c.*, p. 226.

"No. 95. ♀ ad. Gunong Batu Puteh (4,300 feet).

"Irides dark brown; feet and legs pale brown; bill black, whitish beneath and at angle. Ground bird."

Identical with a specimen collected in Karennee by Captain WARDLAW RAMSAY. It has also occurred on Mooleyit.

FAM.—TIMELIIDÆ.

Brachypteryx nipalensis (Hodgs.).

Brachypteryx nipalensis, Hume and Davison, *t. c.*, p. 236 ; Oates, *t. c.*, p. 19.

"No. 89. ♂ ad. Gunong Batu Puteh (4,300 feet).

"Irides brown ; bill black ; feet and legs ash-colour. Lives on the ground in the forest."

An adult male, rather darker than the generality of Himalayan and Tenasserim specimens, though some of the latter equal it in intensity of colouring.

Phyllergates cucullatus (Temm.).

Phyllergates cucullatus, Sharpe, *P. Z. S.*, 1887, p. 440.

"No. 112. ♀ ad. Gunong Batu Puteh (3,400 feet).

"Irides dark brown ; bill black above, yellowish beneath ; legs and feet pale-brown. Also met with on Gunong Ulu Batang Padang at about the same altitude."

Gampsorhynchus saturatior, Sp. n.

"No. 101. ♀ ad. Gunong Batu Puteh (3,400 feet).

"Irides bright yellow ; legs and feet bluish ash with tints of flesh-colour in places ; claws flesh-colour ; soles of feet dull yellow ; bill pale flesh-colour, dusky on the ridge below the nostrils. The fold of skin in which the rictal bristles are inserted is very prominent, and evidently when alive the bird can move the bristles as a whole backwards and forwards with great freedom.

"Length $10\frac{1}{2}$ inches, expanse 12 inches. The stomach contained one large hairy caterpillar and the partly digested remains of various insects, and the egg of one of the Phasidæ.

"This bird gave me a great deal of trouble, for every night and early each morning a small party of them used to pass the camp, sometimes on one side and sometimes on the other. They made a loud shrill cry something like the cry of the

Krekah monkey, and flew quickly from tree to tree. Day after day we went out into the jungle to watch for them, but as there was no certainty which side of the camp they would take, and they always passed when it was so dark in the forest that neither they nor the sight of the gun could be distinguished, we were never successful, until nearly the last day of our stay at that camp, in shooting one. The strange thing was that we never saw these birds in the daytime. They passed up the hill to roost at night-fall and down again at dawn. Their note is so loud and distinctive, and they are so noisy, that they could not easily be overlooked or mistaken for any other bird.

"They are evidently rare, as only this one small party was seen."

This new species is very closely allied to *G. torquatus* (Hume) from Tenasserim, but is altogether of much darker colour, the upper surface being more rufous-brown. It is evidently a southern race of the Tenasserim form.

Sibia simillima, Salvad.

Sibia simillima, Sharpe, P. Z. S., 1886, p. 352.

Heterophasia simillima, Salvad., t. c., p. 232.

"No. 13. ♂ ad. Batang Padang mountains, Perak."

Pomatorhinus borneensis, (Cab.).

Pomatorhinus borneensis, Sharpe, Cat. B. Brit. Mus., vii, p. 411; Hume, Str. F., 1879, p. 61.

"No. 100. ♂ ad. Gunong Batu Puteh (3,400 feet).

"Irides very light brown; bill white, with black on the top of the ridge, reaching about halfway to the point; legs and feet bluish ash; soles of feet yellowish brown.

"Only one pair of these birds were seen; they were in company with a number of other birds."

Melanocichla peninsularis, Sp. n.

"No. 84. ♂ ad. Gunong Batu Puteh (3,400 feet).

"Irides bluish grey; bare skin round eye and also the skin of the head and neck under the feathers dark purplish blue; bill bright reddish orange; legs grey, edges of the scales

yellowish ; feet same, but more yellow ; soles of feet yellow. Stomach contained a quantity of reddish-coloured ants. It is a shy and uncommon bird, frequents dense jungle, in pairs or small parties of three or four, is noisy and harsh-voiced. I saw it also at nearly 5,000 feet on Gunong Ulu Batang Padang."

This species is an interesting representative of *M. lugubris* of Sumatra, but is slaty grey, instead of brown on blackish, both above and below.

Total length 10 inches, culmen 1.1, wing 4.8, tail 4.6, tarsus 1.45.

Rhinocichla mitrata (S. Müll.).

Rhinocichla mitrata, Sharpe, P. Z. S., 1886, p. 352.

Leiothrix mitrata, Salvad., t. c., p. 230.

"No. 12. ♀ ad. Batang Padang mountains, Perak."

Stachyris nigriceps (Hodgs.).

Stachyris nigriceps, Sharpe, P. Z. S., 1887, p. 440.

"No. 84. ♀ ad. Gunong Batu Puteh and Gunong Ulu Batang Padang (4,000 to 5,000 feet).

"Irides light brown ; bill black, greyish beneath ; feet, legs and claws ash-colour, slightly tinted with green. Soles of feet light brown. Stomach contained insects. This birds is usually in company with other small birds."

Stachyris nigricollis (Temm.).

Stachyris nigricollis, Sharpe, Cat. B. Brit. Mus., vii, p. 535.

Timelia nigricollis, Hume, Str. F., 1879, p. 60.

"No. 125. ♂ ♀ ad. Batang Padang mountains, Perak."

"Irides red ; bill above black, lower mandible pale straw-colour, tipped dusky."

Turdinus sepiarius (Horsf.).

Turdinus sepiarius, Sharpe, Cat. B. Brit. Mus., vii, p. 544.

"No. 132. ♀ ad. Kinta, Perak mountains.

"Apparently not to be separated from Javan and Bornean specimens. The flanks are perhaps a trifle more rufous-brown."

Dryocataphus nigricapitatus (Eyton.).

Dryocataphus nigricapitatus, Oates, *t. c.*, p. 63.

"No. 135. ♂ ad. Larut, Perak mountains.

"Irides red."

Mixornis gularis (Raffl.).

Mixornis gularis, Oates, *t. c.*, p. 51; Hume, Str. F., 1879, p. 60; Salvad., *t. c.*, p. 223.

"No. 134. Larut, Perak mountains.

"Irides dark brown."

Macronus ptilosus, J. & S.

Macronus ptilosus, Sharpe, Cat. B. Brit. Mus., vii, p. 583; Hume, Str. F., 1879, p. 60; Salvad., *t. c.*, p. 224.

"No. 124. ♂ ad. Batang Padang mountains, Perak.

"Irides dark brown; bill black; skin of head and neck and round eyes cobalt-blue."

Herpornis xantholeuca (Hodgs.).

Herpornis xantholeuca, Oates, *t. c.*, p. 151.

"No. 109. ♂ ad. Gunong Batu Puteh (3,400 feet).

"Irides dark brown; feet and legs flesh-colour, bill black above, fleshy beneath and at angle."

Siva castaneicauda (Hume).

Siva castaneicauda, Hume and Davison, Str. F., 1878, p. 371; Oates, *t. c.*, p. 145.

"No. 102. ♂ ad. Gunong Batu Puteh.

"Irides dark brown; feet and legs bluish-grey; bill brown, pale beneath. This bird seems to have the same habits as *Mesia argenteauris*. I saw it on the summits of Gunong Batu Puteh and Gunong Brumbrin at between 6,000 and 7,000 feet altitude. The only other birds I noticed were *Æthopyga wrayi* (Sharpe) and a large light greyish-brown-coloured Eagle; but this latter was far out of range."

Identical with the types from Tenasserim in the Hume collection.

Siva sordidior, Sp. n.

Siva sordida, Sharpe, P. Z. S., 1887, p. 438 (nec Hume).

"No. 33. ♂ ad. Batang Padang mountains, Perak."

In my first paper I ventured to doubt the identity of a specimen sent by Mr. WRAY with *Siva sordida* of Hume from Tenasserim; but as that specimen was not adult, I refrained from describing it. Now that two more adult birds have been procured by Mr. WRAY, there is no longer any doubt that the Perak bird is distinct, differing in its still duller colouration, the absence of blue on the head, which is like the back, and also in the absence of the ochreous brown-colour of the lower back and rump. Total length 6 inches, culmen 0.55, wing 2.55, tail 2.6, tarsus 0.85.

Mesia argentauris (Hodgs.).

Mesia argentauris, Sharpe, P. Z. S., 1886, p. 352.

"No. 10. ♂ ad. Batang Padang mountains, Perak."

Cutia cervinicrissa, Sp. n.

"No. 85. ♂ ♀ ad. Gunong Batu Puteh.

"Irides light brown; legs and feet bright chrome-yellow; claws white; bill black above, grey beneath and at angle. It is a rare bird, and I did not see it lower than 4,000 feet. It frequents the higher trees, in small parties of three or four, and has a loud whistling double note, repeated several times in succession."

This is a race of *C. nipalensis*, a bird unknown in Tenasserim, from which the Perak form differs in its fulvescent under-surface, and twany-coloured lower abdomen and under tail-coverts. These characters, though slight, are well established when the pair sent by Mr. WRAY are compared with our large series in the British Museum, all of which are white below. The measurement are as follows:—

	Total length.	Culmen.	Wing.	Tail.	Tarsus.
♂ ad. Perak (Wray)	7.0	0.8	3.65	2.3	1.1.
♀ ad. " "	6.4	0.85	3.3	2.15	1.1.

FAM.—LANIIDÆ.

Pterythrins æralatus (Tickell).

Pterythrins æralatus, Sharpe, P. Z. S., 1887, p. 440.

"No. 34. ♀ ad. Batang Padang mountains, Perak."

Count SALVADORI has recently (Ann. Mus. Civic. Genov. (2) v, p. 600) expressed his non-concurrence in the views of Captain WARDLAW RAMSAY and myself that *Pterythrius cameranoi* of Sumatra is identical with *P. xeralatus* of Tickell. The male of *P. cameranoi* is said by him to want the rosey tinge on the flanks, which is present in Tenasserim specimens, which are also larger; while the female of *P. cameranoi* differs from that of *P. xeralatus* in the grey of the head being less pure, the back more olivaceous, and in the rufous colour of the under parts being brighter and more extended towards the throat. I therefore once more compared our series of these two birds in the British Museum, including the specimens in the Tweeddale collection. I agree with Count SALVADORI that the females are rather different, as described by him, and the female from Perak is grey-headed like the Tenasserim bird, but the male agrees with the Sumatran *P. cameranoi* better than with the true *P. xeralatus*. There is a slight difference in the gloss of the head in the males from Tenasserim and Sumatra, the latter having a blue black gloss, and the Tenasserim birds being rather greenish black on the head. The Sumatra birds have decidedly more pink on the flanks.

FAM.—PARIDÆ.

Melanochlora sultanea (Hodgs.).

Melanochlora sultanea, Hume and Davison, Str. F., 1878, p. 378; Oates, *t. c.*, p. 129; Hume, Str. F., 1879, p. 65.

"No. 90. ♂ ad. Gunong Batu Puteh.

"Irides brown; bill dark grey; feet and legs blue grey. This 'Sultan Tit' I have seen as high as 4,500 feet, both on the Larut Hills and also on the main mountain chain."

FAM.—NECTARINIIDÆ.

Æthopyga wrayi.

Æthopyga wrayi, Sharpe, P. Z. S., 1887, p. 440.

"No. 108. ♀ ad. Gunong Batu Puteh (3,400 feet).

"Irides black; legs and feet brown; bill black, yellowish at angle."

Not distinguishable from the female of *Æ. sanguinipectus*.

FAM.—DICÆIDÆ.

Prionochilus ignicapillus (Eyton).

Prionochilus ignicapillus, Sharpe, Cat. B. Brit. Mus., x, p. 65.

"No. 110. ♂ ad. Gunong Batu Puteh (3,400 feet).

"Irides brown; bill black above, yellow beneath with dusky tip; legs and feet nearly black."

A young bird, without any of the fine colouring of the adult, being almost entirely olive green.

Proc. Zool. Soc., 1888, No. xx.

FAM.—MOFACILLIDÆ.

Limonidromus indicus (Gm.).

Limonidromus indicus, Oates, *t. c.*, p. 164; Hume, Str. F., 1879, p. 65.

"No. 133. ♀ ad. Larut, Perak mountains."

FAM.—EURYLÆMIDÆ.

Corydon sumatranus (Raffl.).

Corydon sumatranus, Hume and Davison, *t. c.*, p. 97; Oates, *t. c.*, p. 430; Hume, Str. F., 1879, p. 50; Salvad., *t. c.*, p. 220.

"No. 92. ♀ ad. Gunong Batu Puteh (3,400 feet).

"Irides light brown; bill above reddish, on ridge lighter, white at tip, beneath pale flesh-colour; bare skin round eye flesh-red; feet and legs black; soles of feet light brown.

"Male has the bill black above tinted with red. The patch under the neck is also paler than in the female.

"The bird I send from the low country (No. 116) differs in several respects from the hill form, but possibly the differences are not sufficient to separate the two specially. Iris brown; bill fleshy red."

The difference in plumage noticed by Mr. WRAY consists principally in the darker colouration of one of the specimens, but it is not sufficient to separate them.

FAM.—CAPRIMULGIDÆ.

Lyncornis temmincki (Gould).

Lyncornis temmincki, Hume, Str. F., 1879, p. 48; Salvad., *t. c.*, p. 195.

"No. 129. ♂ ad. Batang Padang mountains, Perak.

"Irides dark brown."

FAM.—CYPSELIDÆ.

Macropteryx comatus (Temm.).

Macropteryx comatus, Hume and Davison, Str. F., 1878, p. 51; Salvad., *t. c.*, p. 196.

Dendrochelidon comata, Hume, Str. F., 1879, p. 47.

"No. 120. ♂ ♀ Batang Padang mountains, Perak."

"Irides dark brown. This bird sits on the upper branches of a tall tree and flies off, like a Flycatcher, after insect, returning again to its perch. I have seen it on the hills as high as 1,000 feet."

Macropteryx longipennis (Raffl.).

Macropteryx longipennis, Hume and Davison, *t. c.*, p. 52.

Dendrochelidon longipennis, Hume, Str. F., 1879, p. 47.

"No. 130. ♂ ad. Larut, Perak mountains.

"Irides dark brown."

FAM.—PICIDÆ.

Miglyptes tukki (Less.).

Myglyptes tukki, Oates, *t. c.*, vol. ii, p. 61; Hume, Str. F., 1879, p. 52; Hargitt, Ibis, 1884, p. 193.

"No. 123. ♂ ad. Batang Padang mountains, Perak."

"Irides brown; bill black above, pale hony beneath."

Lepocestes pyrrhotis (Hodgs.).

Venilia pyrrhotis, Hume and Davison, Str. F., 1878, p. 142; Oates, *t. c.*, p. 39.

"No. 99. ♂ ad. Gunong.

"Irides warm light brown; bill pale yellow; feet and legs

dull blackish brown. Seems to be rare, as I only saw this single specimen."

Lepocestes porphyromelas (Boil.).

Lepocestes porphyromelas, Salvad., *t. c.*, p. 181.

Venilia porphyromelas, Hume and Davison, *t. c.*, p. 143 ; Oates, *t. c.*, p. 40 ; Sharpe, P. Z. S., 1887, p. 443.

Blythipicus porphyromelas, Hume, Str. F., 1879, p. 52.

"No. 91. ♂ ad. Gunong Batu Puteh (3,400 feet).

"Irides red ; bill bright yellow ; feet and legs dark blackish brown."

Gecinus puniceus (Horsf.).

Gecinus puniceus, Hargitt, Ibis, 1888, p. 176.

Chrysophlegma puniceus, Oates, *t. c.*, p. 44.

Collolophus puniceus, Hume, Str. F., 1879, p. 52.

"No. 113. ♀ ad. Gunong Batu Puteh (3,400 feet).

"Irides red brown ; bill black above, yellow beneath."

Micropternus brachyurus (V.).

Micropternus brachyurus, Oates, *t. c.*, p. 58 ; Hume, Str. F., 1879, p. 52 ; Hargitt, Ibis, 1888, p. 10.

"No. 122. ♂ ad. Batang Padang mountains, Perak.

"Irides dark brown ; bill black."

Sasia abnormis (T.).

Sasia abnormis, Hume, Str. F., 1879, p. 53 ; Hargitt, Ibis, 1881, p. 235.

"No. 126. ♂ ad. Batang Padang mountains, Perak.

"Irides white, skin round eye fleshy red ; bill above black, beneath yellow ; legs and feet flesh-colour ; claws pale yellow."

Chrysophlegma wrayi, Sp. n.

"No. 87. ♀ ad. Gunong Batu Puteh (from 3,400 to 4,000 feet).

"Irides red brown ; feet and legs ash-colour ; bill black above, grey beneath and at angle. The irides in one specimen were dark brown. No males were collected."

A very interesting race of *C. flavinucha* of Tenasserim,

with a large series of which I have compared it. I showed the specimens to my friend Mr. HARGITT, and examined it together, so that I have the best possible confirmation of the distinctness of the species. It differs from *C. flavinucha* in having the feathers of the throat pure black, narrowly margined, except at the tip, with white, the black expanding about midway. The bill is black, yellowish at the angle of the lower mandible; the rufous bars on the wings are about equal in width to the black interspaces.

The size is considerably less, and the general colouration is darker, especially on the face, which is deep olive. Total length 10.5 inches, culmen 1.28, wing 5.6, tail 4, tarsus 0.93.

The immature female of *C. flavinucha*, which the Perak bird most resembles, has the feathers of the throat of an olive-black, edged with white, the black contracted above midway. The adult of the same species has the base of the feathers entirely white, the apex only being olive-black.

FAM.—TROGONIDÆ.

Harpactes erythrocephalus (Gould).

Harpactes erythrocephalus, Oates, *t. c.*, p. 99.

Harpactes hodgsoni, Gould, Hume and Davison, *t. c.*, p. 66.

"No. 86. ♂ ♀ ad. Gunong Batu Puteh (3,400 feet).

"Irides light red; feet pale flesh-colour, with bluish-white bloom; bill cobalt-blue, black on ridge and at points; bare skin round eye purple. The female has the irides light brown, at least in the single specimen I met with. It keeps usually in the undergrowth and lower trees of the forest, and has the same habits as *Harpactes kasumba*."

Compared with Himalayan specimens, and apparently quite identical.

Harpactes oreskius (T.).

Harpactes oreskius, Oates, *t. c.*, p. 100.

"No. 114. ♂ ♀ ad. Gunong Batu Puteh (3,400 feet).

"Irides light brown, the female pale grey; bill black, shading into cobalt-blue at angle; legs and feet ash."

FAM.—CAPITONIDÆ.

Megalama versicolor (Raffl.).

Megalama vesicolor, Hume, Str. F., 1879, p. 53.

"No. 119. ♀ ad. Batang Padang mountains, Perak.

"Irides dark brown, bill black.

"This is a rare bird, which I have only met with on two occasions, both times in heavy jungle."

Calorhamphus hayii (Gray).

Calorhamphus hayii, Oates, *t. c.*, p. 138; Hume, Str. F., 1879, p. 53.

"No. 106. ♂ ad. Gunong Batu Puteh (3,400 feet).

"Irides red-brown; legs and feet orange."

